

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of: M. DREWNIAK *et al.* Confirmation No.: 3423  
Application No: 10/072,536 Group Art Unit: 1713  
Filing Date: February 7, 2002 Examiner: Henry S. Hu  
Assignor: HIGH MELT-STRENGTH POLYOLEFIN Attorney Docket No.: 86006-6400  
COMPOSITES AND METHODS FOR  
MAKING AND USING SAME

THIRD INFORMATION DISCLOSURE STATEMENT

RECEIVED  
DEC 12 2003  
JC 1700

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Pursuant to Applicant's duty of disclosure under 37 C.F.R. § 1.56, enclosed is a Form PTO-1449 listing twenty-four (24) references in chronological or alphabetical order. Copies of these references are also enclosed for the Examiner's review.

It is respectfully requested that the references be made of record in this application by the Examiner's completion and return of the attached Form PTO-1449.

This Information Disclosure Statement is filed under § 37 CFR 1.97(c)(2). The Commissioner is authorized to charge the \$180 fee associated with this filing, as well as any additional fees which may be required, to Winston & Strawn LLP Deposit Account No. 50-1814.

Respectfully submitted,

Dec. 8, 2003

Date

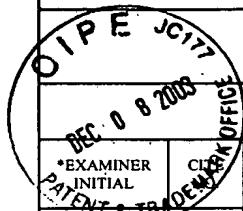
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Customer No. 28765

202-371-5770

Enclosures

<b>LIST OF REFERENCES CITED BY APPLICANT</b> <b>Form PTO-1449</b> <i>(Use several sheets if necessary)</i>			ATTY. DOCKET NO.: 86006-6400	APPLICATION NO.: REC 072,536
			APPLICANT: Marta DREWNIAK et al.	DEC 12 2003
Sheet 1 of 1			FILING DATE: February 7, 2002	GROUP TC 1700



### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	CITE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,759,938	06/1998	Cody et al.	502	62	
	AB	6,036,765	03/2000	Farrow et al.	106	487	
	AC	6,051,643	04/2000	Hasegawa et al.	524	445	
	AD	6,103,817	08/2000	Usuki et al.	524	574	
	AE	6,117,932	09/2000	Hasegawa et al.	524	445	
	AF	6,136,908	10/2000	Liao et al.	524	445	
	AG	6,225,394 B1	05/2001	Lan et al.	524	445	
	AH	6,380,295 B1	04/2002	Ross et al.	524	443	
	AI	6,451,897 B1	09/2002	Niyogi	524	445	
	AJ	6,462,122 B1	10/2002	Qian et al.	524	445	
	AK	6,583,209 B2	06/2003	Mehta et al.	524	445	09/06/2001

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	EP 0807 659 B1	11/1999	EPO			✓	
	AM	EP 1 055 706 A1	11/2000	EPO			✓	
	AN	WO 01/30864 A2	05/2001	WIPO				
	AO	WO 01/48080 A1	07/2001	WIPO				
	AP	WO 02/066553 A2	08/2002	WIPO				

### OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AQ	Galgal, G., et al., "A Rheological Study on the Kinetics of Hybrid Formation in Polypropylene Nanocomposites," <i>Macromolecules</i> , Vol. 34, pp. 852-858 (2001).
AR	Kim, K-N., et al., "Mixing Characteristics and Mechanical Properties of Polypropylene-Clay Composites," <i>ANTEC 2000</i> , Vol. 3, pp. 3782-3786 (2000).
AS	Kodigure, P., et al., "PP/Clay Nanocomposites: Effect of Clay Treatment on Morphology and Dynamic Mechanical Properties," <i>J. Applied Science</i> , Vol. 81, pp. 1786-1792 (2001).
AT	Kurokawa, Y., et al., "Structure and Properties of a Montmorillonite/Polypropylene Nanocomposite," <i>J. Materials Science Letters</i> , Vol. 16, pp. 1670-1672 (1997).
AU	Oya, A., "Polypropylene-Clay Nanocomposites," <i>Wiley Series in Polymer Science</i> , John Wiley & Sons, Ltd., Chapter 8, pages 152-172 (2000).
AV	Oya, A., et al., "Factors Controlling Mechanical Properties of a Clay Mineral/Polypropylene Nanocomposite," <i>J. Materials Science</i> , Vol. 35, pp. 1045-1050 (2000).
AW	Reichert, P., et al., "Poly(propylene)/Organoclay Nanocomposite Formation: Influence of Compatibilizer Functionality and Organoclay Modification," <i>Macromol. Mater. Eng.</i> , Vol. 275, pp. 8-17 (2000).
AX	Solomon, M.J., et al., "Rheology of Polypropylene/Clay Hybrid Materials," <i>Macromolecules</i> , Vol. 34, pp. 1864-1872 (2001).
AY	Svoboda, P., et al.: "Structure and Mechanical Properties of Polypropylene and Polystyrene/Organoclay Nanocomposites," Department of Chemical Engineering, The Ohio State University, June 25-27, 2001.

EXAMINER	DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.